Listing of Claims:

- 1. (Currently Amended) A high dimensional accuracy pipe manufactured by a push-to-pass process comprising the steps of pushing at least one metal pipe in a hole provided in a die while a plug is being charged in the metal pipe, and allowing the metal pipe to pass through the hole, wherein at least one of the a deviation of the outside diameter, the a deviation of the inside diameter, and the a deviation of the thickness in the circumferential direction of the pipe as processed is 3.0% 3% or less.
- 2. (Currently Amended) The high dimensional accuracy pipe according to Claim 1, which is manufactured by a push-to-pass process comprising the steps of pushing at least one metal pipe in a hole provided in a die while a plug is being charged in the pipe, and allowing the metal pipe to pass through the hole so that the thickness of the metal pipe at an outlet side of the die is not more than that at an inlet side, wherein at least one of the deviation of the outside diameter, the deviation of the inside diameter, and the deviation of the thickness in the circumferential direction of the pipe as processed is 3.0% 3% or less.

- 3. (Cancelled)
- 4. (Currently Amended) The high dimensional accuracy pipe according to one of Claims 1 to 3 claim 1, wherein the die is at least one of an all-in-one type and/or and a fixed type die.
 - 5. (Cancelled)
 - 6. (Cancelled)
 - 7. (Cancelled)
 - 8. (Cancelled)
 - 9. (Cancelled)
- 10. (Currently Amended) A highly efficient method for manufacturing a high dimensional accuracy pipe, comprising a push-to-pass process which includes:

pushing at least one metal pipe in a hole provided in a die
while a plug is being charged in the metal pipe; and

allowing the metal pipe to pass through the hole; wherein, in Claim 5, when at least one of the <u>a</u> deviation of the outside diameter, the <u>a</u> deviation of the inside diameter, and the <u>a</u> deviation of the thickness in the circumferential direction of each of the pipes is improved by the push-to-pass process, the pipes are continuously fed in the die using <u>a</u> pipe feeding means mechanism provided at an inlet side of the die while the plug is being charged in each of the pipes and is being floated.

- 11. (Currently Amended) The highly efficient method for manufacturing a high dimensional accuracy pipe, according to Claim 10, wherein the pipe feeding means is mechanism comprises at least one caterpillar device which holds holding the pipes before they are processed.
- 12. (Currently Amended) The highly efficient method for manufacturing a high dimensional accuracy pipe, according to Claim 10, wherein the pipe feeding means is mechanism comprises at least one endless belt holding which holds the pipes before they are processed.
- 13. (Currently Amended) The highly efficient method for manufacturing a high dimensional accuracy pipe, according to Claim 10, wherein the pipe feeding means is mechanism comprises at least one intermittent feeding device which alternately holds and intermittently feeds the pipes before they are processed.
- 14. (Currently Amended) The highly efficient method for manufacturing a high dimensional accuracy pipe, according to Claim 10, wherein the pipe feeding means is mechanism comprises a press which sequentially pushing pushes the pipes before they are processed.

- 15. (Currently Amended) The highly efficient method for manufacturing a high dimensional accuracy pipe, according to Claim 10, wherein the pipe feeding means is mechanism comprises at least one grooved roll holding which holds the pipes before they are processed.
 - 16. (Cancelled)
 - 17. (Cancelled)
- 18. (Currently Amended) A method for manufacturing a high dimensional accuracy pipe having superior surface quality, comprising a push-to-pass process which includes:

pushing at least one metal pipe in a hole provided in a die
while a plug is being charged in the metal pipe;

allowing the metal pipe to pass through the hole; and

applying a lubricant film to at least one of an interior and

an exterior surface of the pipe; and

wherein, in Claim 5, after an at least one of the interior and/or an and exterior surface of the pipe is provided with a lubricant film, the plug is charged in the pipe, and the push-to-pass process is performed using the die.

19. (Original) The method for manufacturing a high dimensional accuracy pipe having superior surface quality,

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according to Claim 18, wherein the pipe on which the lubricant film is formed is a steel pipe to which oxide scales still adhere.

- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Currently Amended) The method for manufacturing a high dimensional accuracy pipe having superior surface quality, according to Claim 18 or 19, wherein the lubricant film is formed by using a drying resin.
 - 23. (Cancelled)
 - 24. (Cancelled)
 - 25. (Cancelled)
 - 26. (Cancelled)
 - 27. (Cancelled)
- 28. (Currently Amended) A stable method for manufacturing a high dimensional accuracy pipe, comprising a push-to-pass process which includes:

pushing at least one metal pipe in a hole provided in a die
while a plug is being charged in the metal pipe; and

allowing the metal pipe to pass through the hole; wherein,

in Claim 5, in manufacturing a high dimensional accuracy pipe by the push-to-pass process in which,

wherein:

while the plug is being charged in the pipe, the pipe is pushed in the hole provided in the die and is then allowed to pass therethrough,

a the plug having has an angle of 5 to 40° which is formed between the surface of a diameter reducing portion and a processing central axis and a length of 5 to 100 mm of the diameter reducing portion is used as the plug, and as

the die, a die is used having has an angle of 5 to 40° which is formed between the interior surface of the hole at an inlet side and the processing central axis.

- 29. (Currently Amended) The stable method for manufacturing a high dimensional accuracy pipe, according to Claim 28, wherein the length of a bearing portion of the plug is set to 5 to 200 mm.
 - 30. (Cancelled)
 - 31. (Cancelled)
 - 32. (Cancelled)
 - 33. (Cancelled)
 - 34. (Cancelled)

- 35. (Cancelled)
- 36. (Cancelled)
- 37. (Currently Amended) A manufacturing apparatus for manufacturing a high dimensional accuracy pipe, comprising:
- a plug capable of being in contact with the an entire inner circumference of at least one metal pipe,
- at least one die having a hole capable of being in contact with $\frac{1}{2}$ entire outer circumference of the metal pipe, and
- a pipe pushing device which pushes pushing the metal pipe, wherein while the plug is being charged in the metal pipe, the metal pipe is pushed in the hole in the die and is then allowed to pass therethrough, whereby the a push-to-pass process is performed.
- 38. (Currently Amended) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 37, wherein the die is at least one of an all-in-one type and/or and a fixed type die.
- 39. (Currently Amended) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 37 or 38, wherein the plug is a floating type plug.

- 40. (Currently Amended) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to one of Claims 37 to 39 Claim 37, wherein the pipe pushing device comprises is a device which continuously pushing pushes the metal pipes.
- 41. (Currently Amended) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to one of Claims 37 to 39 Claim 37, wherein the pipe pushing device comprises is a device which intermittently pushing pushes the metal pipes.
 - 42. (Cancelled)
 - 43. (Cancelled)
 - 44. (Cancelled)
 - 45. (Cancelled)
 - 46. (Cancelled)
 - 47. (Cancelled)
 - 48. (Cancelled)
 - 49. (Cancelled)
- 50. (Currently Amended) A manufacturing apparatus for manufacturing a high dimensional accuracy pipe, wherein, in Claim 37, in a manufacturing apparatus having the die through which the

pipe is allowed to pass, and the pushing device pushing the pipe in the die, fine adjustment means for adjusting pipe bending is provided at a position very close to an outlet side of the die, the <u>fine adjustment</u> means having:

- a hole body through which the pipe is allowed to pass,
- a support substrate $\frac{\text{supporting which supports}}{\text{movably in the }\underline{a}}$ plane perpendicular to a pipe traveling direction, and
- a hole body-moving mechanism which is supported by the support substrate and which moves the hole body.
 - 51. (Cancelled)
 - 52. (Cancelled)
 - 53. (Cancelled)
 - 54. (Cancelled)
 - 55. (Cancelled)
 - 56. (Cancelled)
 - 57. (Cancelled)
 - 58. (Cancelled)
- 59. (Currently Amended) A manufacturing line for manufacturing a high dimensional accuracy pipe, comprising the push-to-pass process device <u>as</u> described in Claim 37, wherein a pipe-end grinding device grinding the which grinds an end surface

of the <u>a</u> pipe in the direction perpendicular to a pipe axis, a lubricant immersion coating bath in which the pipe is coated with a lubricant by immersion, a drying device drying which dries the pipe coated with the lubricant, and the push-to-pass process device are provided in that order.

- 60. (Cancelled)
- 61. (Cancelled)
- 62. (Cancelled)
- 63. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 63, wherein the plug is a floating type plug.
- 64. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 39, wherein the pipe pushing device comprises a device which continuously pushes the metal pipes.
- 65. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 39, wherein the pipe pushing device comprises a device which continuously pushes the metal pipes.

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- 66. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 39, wherein the pipe pushing device comprises a device which continuously pushes the metal pipes.
- 67. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 63, wherein the pipe pushing device comprises a device which intermittently pushes the metal pipes.
- 68. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 38, wherein the pipe pushing device comprises a device which intermittently pushes the metal pipes.
- 69. (New) The manufacturing apparatus for manufacturing a high dimensional accuracy pipe, according to Claim 39, wherein the pipe pushing device comprises a device which intermittently pushes the metal pipes.
- 70. (New) A manufacturing line for manufacturing a high dimensional accuracy pipe, comprising the push-to-pass process device as described in Claim 37, further comprising:

a pipe-end grinding device which grinds an end surface of

the pipe in a direction perpendicular to a pipe axis, and

a lubricant spray coating device which coats the pipe with a lubricant by spraying, the lubricant spray coating device provided at an inlet side of the die of the push-to-pass process device.

- 71. (New) A manufacturing line for manufacturing a high dimensional accuracy pipe, comprising the push-to-pass process device as described in Claim 37, further comprising:
- a pipe-end grinding device which grinds an end surface of the pipe in a direction perpendicular to a pipe axis, and
- a lubricant spray coating and drying device which coats the pipe with a lubricant by spraying and which thereafter dries the lubricant coating, the lubricant spray coating device provided at an inlet side of the die of the push-to-pass process device.